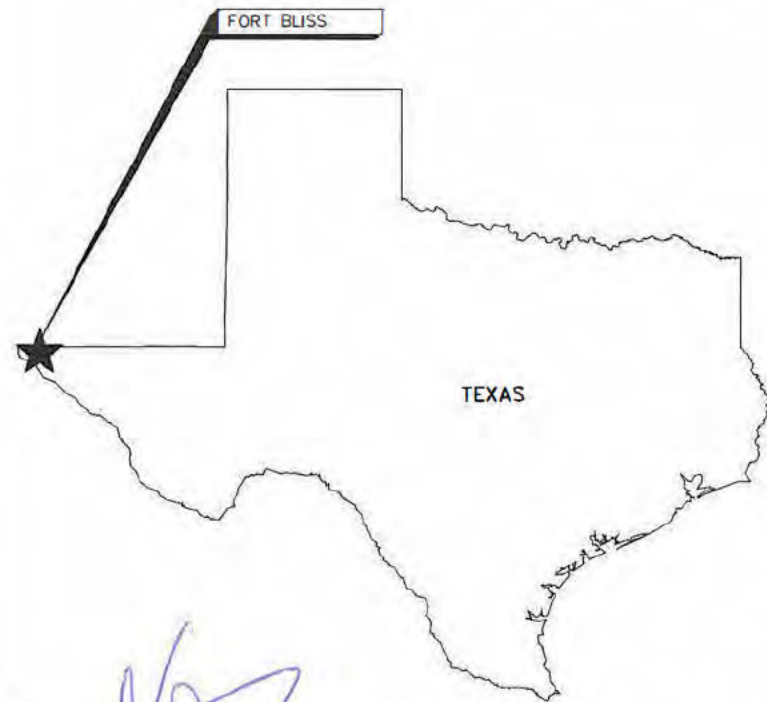


PERMIT MODIFICATION APPLICATION- OPTIMIZED EVAPO-TRANSPIRATION (ET) ALTERNATIVE COVER SYSTEM FORT BLISS MUNICIPAL SOLID WASTE LANDFILL EL PASO, EL PASO COUNTY, TEXAS



VICINITY MAP
NOT TO SCALE



LOCAL VICINITY MAP

SHEET INDEX:

- G-1 COVER SHEET
- T-1 SURVEY OF EXISTING CONDITIONS I
- T-2 SURVEY OF EXISTING CONDITIONS II
- C-1 FINAL COVER CAPPING PLAN
- C-2 FINAL COVER GRADING PLAN I
- C-3 FINAL COVER GRADING PLAN II
- C-4 FINAL COVER STORM WATER COLLECTION PLAN I
- C-5 FINAL COVER STORM WATER COLLECTION PLAN II
- C-6 FINAL COVER LANDFILL CROSS SECTIONS
- C-7 TYPICAL CAP & DRAINAGE DETAILS
- C-8 TYPICAL SITE DETAILS
- C-9 EROSION CONTROL DETAILS

LIST OF ABBREVIATIONS:

- AT = ALGEBRAIC DIFFERENCE
- ASTM = AMERICAN SOCIETY FOR TESTING AND MATERIALS
- B.M. = BENCHMARK
- C.P. = CURB POINT
- ELEVATION OF VERTICAL CURVE ELEVATION
- STATIONING OF VERTICAL CURVE STATION
- CL = CENTERLINE
- DIA = DIAMETER
- E = EAST
- EG = EXISTING GRADE ELEVATION
- ELEV = ELEVATION
- EP = END POINT
- ET = EVAPOTRANSPIRATION COVER SYSTEM
- EVCE = END OF VERTICAL CURVE ELEVATION
- EVCS = END OF VERTICAL CURVE STATION
- FFE = FINISH FLOOR ELEVATION
- FG = FINISH GRADE ELEVATION
- FL = FLOW LINE ELEVATION
- INV = INVERT ELEVATION
- K = VERTICAL CURVE K-VALUE
- LF = LINEAR FEET
- LT = LEFT
- MAX = MAXIMUM
- MIN = MINIMUM
- MUTCD = MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- N = NORTH OR NORTHING
- N.E.C. = NATIONAL ELECTRICAL CODE
- N.T.S. = NOT TO SCALE
- O.C. = ON CENTER
- PC = POINT OF CURVE
- PB = PULL BOX
- P.E. = PROFESSIONAL ENGINEER
- PI = POINT OF INTERSECTION
- PLS = PROFESSIONAL LAND SURVEYOR
- PNM = PUBLIC SERVICE COMPANY OF NEW MEXICO
- P.S.I. = POUNDS PER SQUARE INCH
- PT = POINT OF TANGENT
- PVC = POLYVINYL CHLORIDE
- PVI = POINT OF VERTICAL INTERSECTION
- R = RADIUS LENGTH
- RE = REFERENCE
- RT = RIGHT
- SF = SQUARE FEET
- STA = STATION
- S = SOUTH
- TC = TOP OF CURB ELEVATION
- TF = TOP OF FOOTING ELEVATION
- TW = TOP OF WALL ELEVATION
- TYP = TYPICAL
- UE = UNDERGROUND ELECTRIC
- VC = VERTICAL CURVE LENGTH
- VOR = VILLAGE OF RUIDOSO
- W = WEST



CLIENT:
US ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT,
819 TAYLOR STREET ROOM 2A19
FORT WORTH, TEXAS 76102-0300

ENGINEER OF RECORD:
[Redacted Signature]

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This Appendix was replaced in its entirety.

THIS DOCUMENT RELEASED FOR PERMIT APPROVAL UNDER THE AUTHORITY OF [Redacted]
TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES

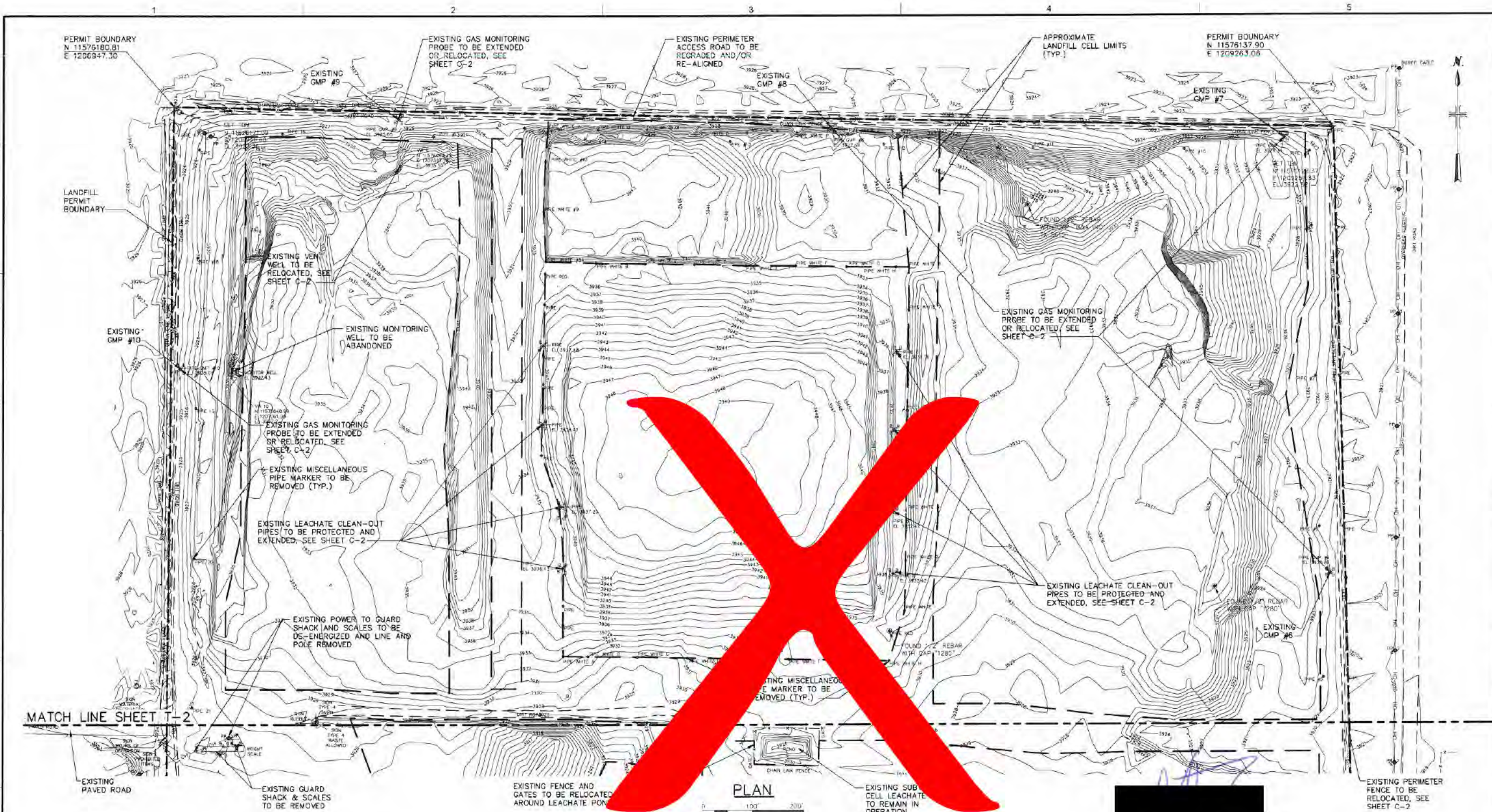
MARK	DESCRIPTION	DATE
A	PRELIMINARY REVIEW	07/25/14
B	REVISED FOR TCEQ SUBMISSION	07/25/14

DESIGNED BY:	DATE:	APPROVED BY:	DATE:
DRAWN BY:	PROJECT NO.:	CONTRACT NO.:	FILE NO.:
SCALE:	DATE:	FILE NO.:	FILE NO.:
SIZE:	FILE NAME:	FILE NAME:	FILE NAME:

FORT BLISS MUNICIPAL SOLID WASTE LANDFILL
PERMIT MODIFICATION APPLICATION-
OPTIMIZED EVAPO-TRANSPIRATION (ET)
ALTERNATIVE COVER SYSTEM
COVER SHEET

SHEET IDENTIFICATION
G-1
SHEET 1 OF 12

User: Ttl Spec-PIPE STANDARD Title: VENCAD\WaterPlans\NYACT\04075026\Fork Bliss Autocad Files\PERMIT MODIFICATION APPLICATION\DWG\04075026-PERMIT-T0.DWG Scale: 1:1 Date: 08/16/2014 Time: 1:13 Layout: Layout1



MATCH LINE SHEET T-2

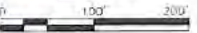
NOTES:

1. SOURCE OF MAP, "TOPOGRAPHIC IMPROVEMENT SURVEY", CREATED FROM A SURVEY PERFORMED BY PRECISION LAND SURVEYORS, EL PASO, TEXAS, JANUARY 2013.
2. BEARING BASIS AND COORDINATE VALUES ARE UNIVERSAL TRANSVERSE MERCATOR, ZONE 13 NORTH, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND ARE REPRESENTED IN U.S. SURVEY FEET. TO CONVERT TO SURVEY DISTANCES, DIVIDE BY THE COMBINED SCALE FACTOR 0.999632 AS DERIVED FROM THE SOUTHWEST CORNER OF THE PROJECT.
3. VERTICAL DATUM NAVD 88 AS DERIVED USING GPS METHODS VIA RTK NETWORK ESTABLISH WESTERN DATA, EL PASO ISLAND.
4. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATED BY ON SITE EVIDENCE. CONTRACTOR HAS TO CONDUCT A LINE SPOT.
5. THIS IS NOT A BOUNDARY SURVEY.
6. ELEVATION CONTOUR LINES IN ARE BASED IN JANUARY 2013 SURVEY AND MATERIAL MAY HAVE BEEN REMOVED SINCE, FOR USE AS COVER FOR ACTIVE CELL AREA.
7. NO GROUND WATER MONITORING WELLS ARE REQUIRED.

LEGEND

- PIPE MARKER
- * LFG MONITORING PROBES
- LEACHATE CLEAN-OUT PIPE
- UNPAVED ACCESS ROAD
- EXISTING 5' TOPOGRAPHIC CONTOUR
- EXISTING 1' TOPOGRAPHIC CONTOUR
- - - EXISTING FENCE
- APPROXIMATE EXISTING LANDFILL CELL LIMITS
- LANDFILL PERMIT BOUNDARY

PLAN



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US Army Corps of Engineers

DESIGNED BY	DATE	REVISION	DATE
FORN BY	AUG 2014	B	07/25/14
FORN BY		A	07/11/14

U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
FORT WORTH, TEXAS

DESIGNED BY: [REDACTED]
FORN BY: [REDACTED]
FORN BY: [REDACTED]

DATE: [REDACTED]
SOLICITATION NO.: [REDACTED]
SUBMITTER NO.: [REDACTED]
CONTRACT NO.: [REDACTED]
PROJECT NO.: [REDACTED]
FILE NUMBER: [REDACTED]

REVISIONS:

NO.	DESCRIPTION	DATE
B	REVISED FOR TCEO SUBMISSION	07/25/14
A	PRELIMINARY REVIEW	07/11/14

FORT BLISS MUNICIPAL SOLID WASTE LANDFILL
PERMIT MODIFICATION APPLICATION (ET)
OPTIMIZED EVAPO-TRANSPARATION SYSTEM
ALTERNATIVE COVER SYSTEM

SURVEY OF EXISTING CONDITIONS I

SHEET IDENTIFICATION
T-1

XREFS: \\ENR\GIS\W\Projects\NY\ACT\04875026\Fort Bliss AutoCAD Files\PERMIT MODIFICATION APPLICATION\REF\G-TITLE\DOC--PERMIT.dwg \REF\Y-BASEMAP.dwg \BASES:None
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- VERTICAL DATUM NAVD 88 AS DERIVED USING GPS METHODS VIA RTK NETWORK ESTABLISH WESTERN DATA, EL PASO ISLAND.
- UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATED BY OH SITE EVIDENCE. CONTRACTOR HAS TO CONDUCT A LINE SPOT.
- THIS IS NOT A BOUNDARY SURVEY.
- ELEVATION CONTOUR LINES IN ARE BASED IN JANUARY 2013 SURVEY AND MATERIAL MAY HAVE BEEN REMOVED SINCE, FOR USE AS COVER FOR ACTIVE CELL AREA.
- NO GROUNDWATER WELLS ARE REQUIRED.

LEGEND

- PIPE MARKER
- LFG MONITORING PROBES
- UNPAVED ACCESS ROAD
- EXISTING 5' TOPOGRAPHIC CONTOUR
- EXISTING 1' TOPOGRAPHIC CONTOUR
- EXISTING FENCE
- APPROXIMATE EXISTING LANDFILL CELL LIMITS
- LANDFILL PERMIT BOUNDARY



US Army Corps of Engineers

MARK	DESCRIPTION	DATE
B	REVISED FOR TOEG SUBMISSION	07/29/14
A	PRELIMINARY REVIEW	07/14/14

DESIGNED BY: TAM	DATE: JULY 2014
DRAWN BY: TLM	SOLUTION NO.:
SUBMITTED BY: [REDACTED]	SAUCATION NO.:
SCALE: 1/2"=100'	CONTRACT NO.:
FILE NAME: [REDACTED]	FILE NUMBER:
FILE NO: [REDACTED]	FILE NUMBER:

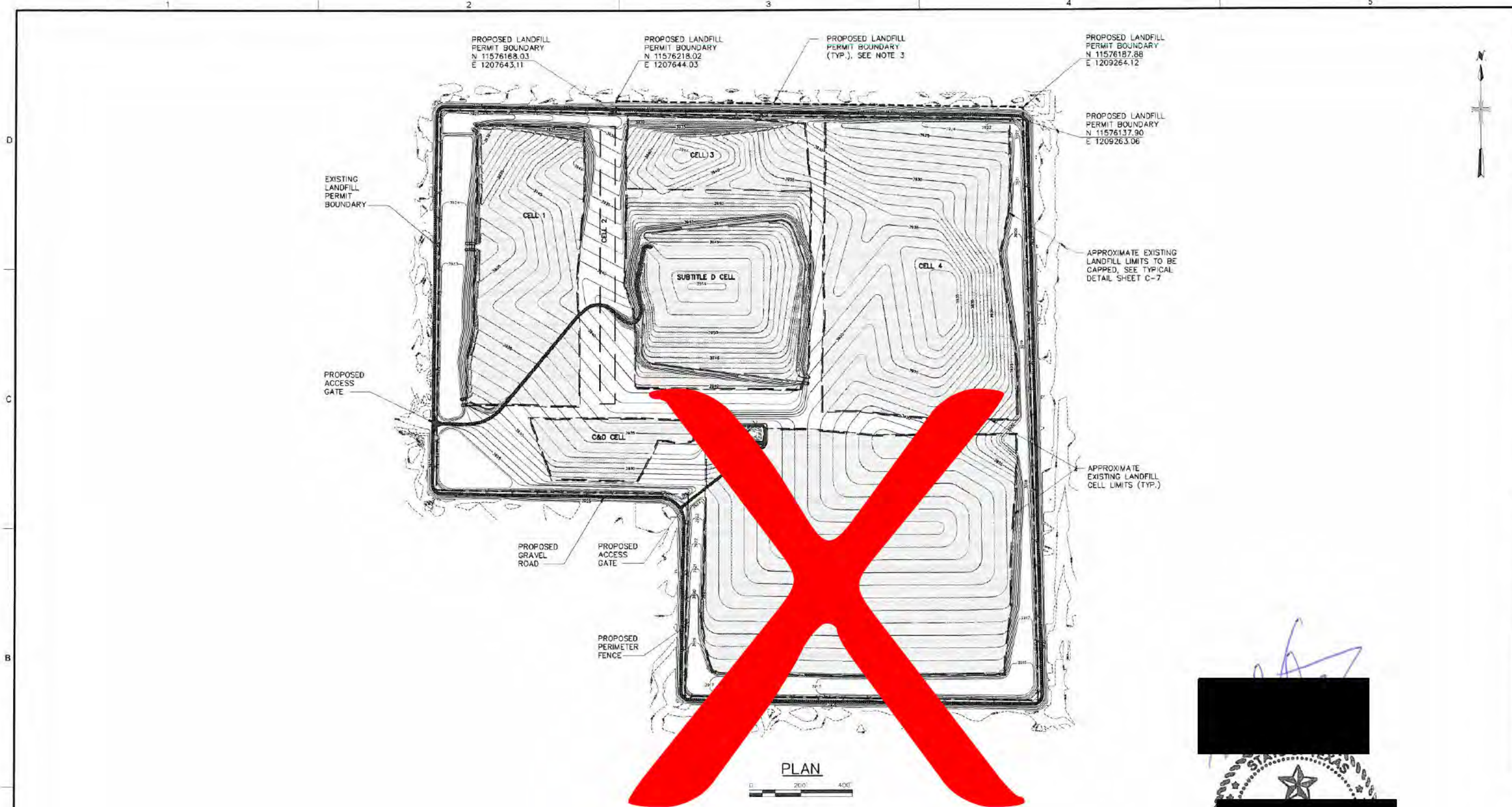
U.S. ARMY CORPS OF ENGINEERS
 FORT WORTH DISTRICT
 FORT WORTH, TEXAS

FORT BLISS MUNICIPAL SOLID WASTE LANDFILL
 PERMIT MODIFICATION APPLICATION
 OPTIMIZED EVAPORATION SYSTEM
 ALTERNATIVE COVER SYSTEM

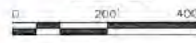
SURVEY OF EXISTING CONDITIONS II

SHEET IDENTIFICATION
T-2
SHEET 2 OF 11

User: T:\Spec\PRIME STANDARD File 1\ENVCAD\Whitepapers\NYACT\04675026\Fort_Bless_AutoCAD Files\PERMIT MODIFICATION APPLICATION DWGS\04675026-PERMIT-COLLING Scale 1:1 Date: 06/17/2014 Time: 11:19 Layout: Layout1



PLAN



LEGEND

- 3724 --- EXISTING TOPOGRAPHIC CONTOUR
- - - - - EXISTING LANDFILL PERMIT BOUNDARY
- - - - - PROPOSED LANDFILL PERMIT BOUNDARY
- 3930 --- PROPOSED 5' FINAL COVER GRADES
- 3924 --- PROPOSED 1' FINAL COVER GRADES
- 3924 --- PROPOSED GRAVEL ROAD
- 3924 --- PROPOSED CHAIN LINK FENCE
- 3924 --- APPROXIMATE EXISTING LANDFILL CELL LIMITS TO BE CAPPED

NOTES:

1. APPROXIMATE EXISTING LANDFILL CELL LIMITS SHOWN SHALL BE CLOSED WITH THE MONOLITHIC CAP DETAILED IN THESE PLANS. ANY WASTE ENCOUNTERED OUTSIDE THE LIMITS OF LANDFILL BOUNDARY DURING CONSTRUCTION SHALL BE RELOCATED WITHIN THE LIMITS OF LANDFILL PRIOR TO PLACEMENT OF CAP.
2. ALL AREAS OUTSIDE THE LIMITS OF LANDFILL CELLS SHALL BE GRADED WITH GENERAL FILL TO GRADES SHOWN TO PROMOTE POSITIVE DRAINAGE.
3. PROPOSED LANDFILL BOUNDARY TO MAINTAIN A 50-FOOT MINIMUM SETBACK FROM LIMITS OF WASTE TO PROPOSED PERMIT BOUNDARY.



MARK	DESCRIPTION	DATE
A	PRELIMINARY REVIEW	07/17/14
B	REVISED FOR TCEO SUBMISSION	07/29/14

DESIGNED BY: TAM	DATE: JULY 2014
DRAWN BY: TAM	SOLICITATION NO.:
SUBMITTED BY:	CONTRACT NO.:
PLOT SCALE: 1/2"=20'	FILE NUMBER:
SCALE: AS SHOWN	FILE NUMBER:
PROJECT ID: 04675026/ENRMLC01	

FORT BLISS MUNICIPAL SOLID WASTE LANDFILL PERMIT MODIFICATION APPLICATION - OPTIMIZED EVAP-TRANSPIRATION (ET) ALTERNATIVE COVER SYSTEM
FINAL COVER CAPPING PLAN

SHEET IDENTIFICATION
C-1



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